



Fosroc Membrane HDPE-S

Post Applied Self Adhesive waterproofing membrane for vertical reinforced concrete members for below ground structures.

Uses & Advantages

- Basement waterproofing protection to grades 1,2 and 3 as defined in BS 8102: 2009
- To provide a vapour and waterproof membrane in building and civil engineering structures
- Very good bonding with concrete.
- Simple application - no primers or protection material required.
- Inert product - no risk of a reaction with ponded waste present in the soil after backfilling
- Facilitates flexible construction programming.
- Full range of Fosroc hydrophilic and PVC waterstops available to provide complete solution to waterproofing of the structure.

Description

Fosroc Membrane HDPE - S is a post applied high performance self adhesive HDPE membrane for waterproofing application for retaining walls, RC members and basement substructures.

Fosroc Membrane HDPE-S provides water, water vapour protection to water excluding structures and protects concrete from aggressive ground salts, chemicals and hydrocarbons.

Fosroc Membrane HDPE-S is supplied as a membrane with 1.2mm thickness having a self adhesive glue which helps in bonding to all the casted RC members.

Standard compliance

British Standard 8102:2009 - code of practice for 'Protection of Structures against Water from the Ground'.

Specification Clauses

The waterproof tanking membrane shall be Fosroc Membrane HDPE-S, self adhesive waterproofing membrane consisting of HDPE-film and self adhesive glue which bonds to cured RC members.

The membrane shall be supplied with one self-adhesive seldge to provide sealed laps and comply with British Standard 8102 2009 - Code of practice for 'Protection of Structures Against Water from the Ground' to provide basement waterproofing protection to grades 1,2 and 3.

Technical Properties

Physical properties	Typical values
Thickness	1.2mm & 1.5mm
Tensile strength film (ASTM D412)	21± 5 Mpa
Elongation (ASTM D412)	> 400%
Puncture resistance (ASTM D412)	> 600 N/m
Peel Adhesion to concrete (ASTM D903 Modified)	> 880 N/m
Resistance to hydrostatic head (ASTM D751-06 (2011))	> 70 mtr

Clarification of property values :

The typical properties given above are derived from laboratory testing. Results derived from field applied samples may vary.

Application instruction

Surface preparation

Vertical application: All concrete surfaces must be wood float or shutter finish and free from cavities or projections. All honey combs, cracks, surface defects and tie rod holes should be repaired using structural grade Fosroc Renderoc repair series. All surfaces must be clean, dry and free from contamination, ice and frost. The substrate shall be free from loose aggregate or other sharp protrusions.

The surface should be dry enough, moisture content to be <5% to have a neat bonding with the erected membrane.

Membrane Installation

Cut the membrane to a convenient length for installation. Carefully align the membrane and roll it out with printed coated side facing the concrete. Lay adjacent sheets accurately so they overlap the previous sheet 75mm along the seldge. When laying adjacent full rolls there should be stagger of half a roll length to avoid a build up of end joints in one area. The end joints should be done with 100mm overlap.

Start from the bottom of the wall and work progressively removing the release paper in stages.

Peel of the release film carefully without disturbing the alignment and press the membrane against the RC member firmly.

The membrane should be thoroughly rolled through out the length along with overlaps and joints to ensure complete adhesion between layers and the RC member

Fosroc Membrane HDPE-S

Penetrations

Penetrations e.g pipe entries through Fosroc Membrane HDPE-S, require special attention to detail. Refer to more information on details

Backfilling

Backfilling material must be free from sharp objects and debris that could damage the Fosroc Membrane HDPE-S. It should not contain house bricks, blocks or boulders larger than 50 mm.

Contaminated ground

Fosroc Membrane HDPE-S is suitable for use in many contaminated ground applications eg hydrocarbons, salts etc. Consult local Fosroc office for specific advice.

Ancillary products

Fosroc Membrane HDPE Sealed Tape

Double-side Adhesive Flashing tape has two layers of adhesive which bond respectively to the HDPE surface.

The specially developed Fosroc Membrane HDPE Sealed Tape work together to form a continuous and integral seal to the structure.

Fosroc Membrane HDPE Sealed Tape is an 100mm wide tape used in detail areas including end laps and various tie-ins. It is also used to patch damaged areas in the Fosroc Membrane HDPE-S.

Estimating

Fosroc Membrane HDPE-S

Roll size : 1.0 x 20m

Fosroc Membrane HDPE Sealed Tape

Width : 100 mm

Length : 10 m

Storage

Store in original unopened packaging in cool dry conditions, away from sunlight in a flat position.

Precautions

Health and Safety

For further information refer to appropriate Product Safety Data Sheets available at www.fosroc.com.

Complete rolls should be handled by minimum two persons



Fosroc Chemicals (India) Pvt. Ltd.

Head Office

Embassy Point
No.150, 2nd Floor,
Infantry Road,
Bangalore-560001

Important note :

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telephone

+91 80-42521900

fax

+91 80-22281510

e-mail

enquiryindia@fosroc.com

Regional Offices

Chennai

Hills Center, Old No.5, New No.9
3rd Cross Street, Jeth Nagar,
Raja Annamalaipuram,
Chennai 600 028
Ph: +91 44 24899949-94
Fax: 044-24896641

Mumbai

MBC Park, 12th floor, Office No.12B,
'D' Block, Near G Corp/Hyper City
Kasarwadawali, Ghodbunder Road,
Thane (West) 400 615
Ph: +91 22 6229 6800
Fax: 022 62296809

Noida

Unit No. 601, Highway Tower-II
A-13/2, 6th Floor, Sector- 62
Gautam Buddha Nagar,
Noida 201 309, Uttar Pradesh
Ph: +91 120 6121900

Kolkata

304, Jodhpur Park
Kolkata 700 068
Ph: +91 33-65343188
Fax: 033-2499-0280